

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/003120

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 E03F5/06

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E03F E02D E01C E05C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 0 506 591 A (PONT-A-MOUSSON) 30 September 1992 (1992-09-30) the whole document	1,2,4,6, 7,9 3,5,8
X A	EP 0 085 306 A (BRICKHOUSE) 10 August 1983 (1983-08-10) the whole document	1,2,4, 6-8 3,5,9
X A	US 4 909 660 A (FERNS) 20 March 1990 (1990-03-20) column 2, line 29 - column 5, line 16; figures 1-4,7-16	1,2,7-9 3-6
A	FR 2 740 789 A (PREFAEST) 9 May 1997 (1997-05-09) the whole document	1-7
-/-		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

**\* Special categories of cited documents :**

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

20 July 2004

Date of mailing of the international search report

27/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Van Bost, S

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/003120

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>WO 2004/015213 A (NORINCO) 19 February 2004 (2004-02-19) the whole document</p> <p>-----</p>	1-7,9

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/003120

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0506591	A	30-09-1992	FR 2674560 A1 AT 119964 T DE 69201664 D1 DE 69201664 T2 DK 506591 T3 EP 0506591 A1 ES 2063725 T1 GR 3015427 T3 IE 921005 A1 NO 921167 A	02-10-1992 15-04-1995 20-04-1995 13-07-1995 07-08-1995 30-09-1992 16-01-1995 30-06-1995 07-10-1992 29-09-1992
EP 0085306	A	10-08-1983	EP 0085306 A2 GB 2119836 A	10-08-1983 23-11-1983
US 4909660	A	20-03-1990	AT 77861 T AU 596496 B2 AU 1099188 A DE 3872408 D1 EP 0280872 A1 ES 2032874 T3 PT 86680 A ,B US 4955752 A	15-07-1992 03-05-1990 04-08-1988 06-08-1992 07-09-1988 01-03-1993 28-02-1989 11-09-1990
FR 2740789	A	09-05-1997	FR 2740789 A1	09-05-1997
WO 2004015213	A	19-02-2004	FR 2843139 A1 WO 2004015213 A2	06-02-2004 19-02-2004